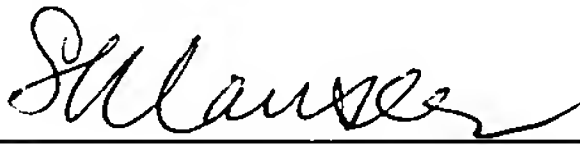




IFW
Docket No. 054030-0066

UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : ABBOTT, *et al.*
Application No. : 10/711,517
Filing Date : September 23, 2004
Group Art Unit : 1641
Confirmation No. : 5516
Examiner : Christine E. Foster
For : USING LIQUID CRYSTALS TO DETECT AFFINITY
MICROCONTACT PRINTED BIOMOLECULES

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	CERTIFICATE OF TRANSMISSION/MAILING
	I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office on the date shown below or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on January 25, 2006.
	
	Signature
	Stephanie Klauser
	Typed or Printed Name

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☐ under 37 CFR 1.129(a), or
(First/Second submission after Final Rejection)
- ☐ under 37 CFR 1.97(b), or
(Within any one of the following time periods: three months of filing national application (other than a CPA) or date of entry of the national stage in an international application; or before the mailing date of a first office action on the merits in a non-provisional application, including a CPA, or a Request for Continued Examination).

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- ☒ under 37 CFR 1.97(c) together with either:
☐ a Statement under 37 CFR 1.97(e), as checked below, or
☒ a \$180.00 fee under 37 CFR 1.17(p), or
 (More than 3 months after receipt of the International Search Report, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with:
☐ a Statement under 37 CFR 1.97(e), as checked below, and
☐ a \$180.00 fee under 37 CFR 1.17(p), or
 (Filed after final action or notice of allowance, whichever occurs first, but on or before payment of the issue fee)
- ☐ under 37 CFR 1.97(i):
 Applicant requests that the IDS and cited reference(s) be placed in the application filewrapper.
 (Filed after payment of issue fee)

Statement Under 37 CFR 1.97(e)

- ☐ Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or
- ☐ No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Statement Under 37 CFR 1.704(d) (Patent Term Adjustment)

Applies to original applications (other than design) filed on or after May 29, 2000

- ☐ Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.

Enclosed herewith is Substitute for Form 1449/PTO:

- ☒ Copies of the cited references are enclosed.
- ☐ In accordance with 37 C.F.R. § 1.98 (d), copies of cited references (*list reference not enclosed*) are not enclosed as these references were entered in earlier application, U.S. Application No. [], to which the present application claims priority under 35 U.S.C. 120. The earlier application contains copies of the cited references.

- ☐ If copies of references [] would benefit the Examiner of this case, the Examiner is invited to call the undersigned attorney and copies will be forwarded immediately.
- ☐ Listed references [] were cited in the enclosed International Search Report in a counterpart foreign application.

Concise Explanation Requirement (non-English references):

- ☐ The "concise explanation" requirement (non-English references) for reference AM under 37 CFR 1.98(a)(3) is satisfied by:
 - ☐ the explanation provided on the attached sheet.
 - ☐ the explanation provided in the Specification.
 - ☐ submission of the enclosed International Search Report.
 - ☐ the enclosed English language abstract.

- ☐ Applicant requests that the following pending applications be considered:

Examiner's
Initials

- _____ U.S. Patent Application No. [], Publication No. [], Publication Date [],
by [inventor(s)], filed [], Docket No.: []
- _____ U.S. Patent Application No. [], Publication No. [], Publication Date [],
by [inventor(s)], filed [], Docket No.: []
- _____ U.S. Patent Application No. [], Publication No. [], Publication Date [],
by [inventor(s)], filed [], Docket No.: []

Examiner

Date

- ☐ A copy of each above-cited application, including the current claims, is enclosed.
- ☐ A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application, U.S. Application No. [], to which priority under 35 U.S.C. 120 is claimed.

The Examiner is requested to return a copy of the above list of pending applications indicating which references were considered with the next office communication.

It is requested that the information disclosed herein be made of record in this application.

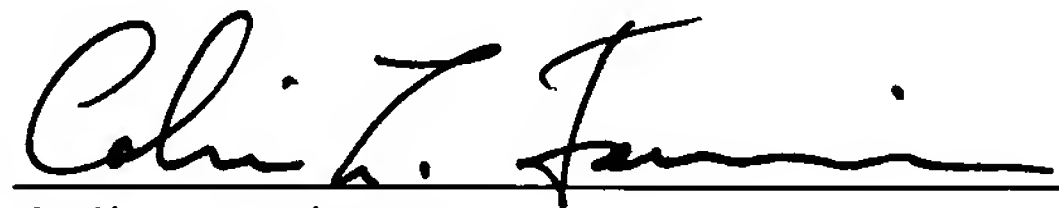
Method of payment:

- ☐ A check for the fee noted above is enclosed, or the fee has been included in the check with the accompanying Reply. A copy of this Statement is enclosed.
- ☒ Please charge Deposit Account No. 07-1509 in the amount of \$180.00. A copy of this Statement is enclosed.
- ☒ Please charge any deficiency in fees and credit any overpayment to Deposit Account No. 07-1509.

Dated this 25th day of January, 2006.

Respectfully submitted,

GODFREY & KAHN, S.C.



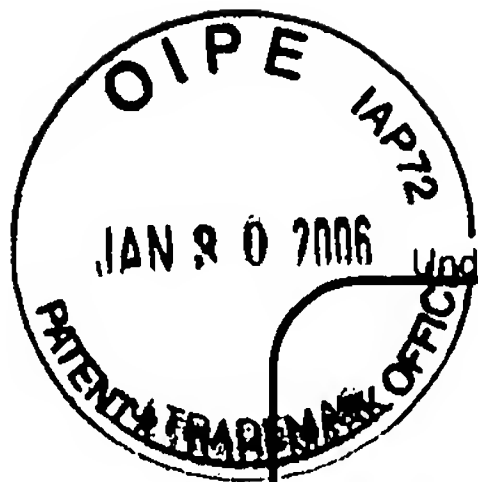
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**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

184

Application Number

10/711,517

Filing Date

September 23, 2004

First Named Inventor

Nicholas L. ABBOTT

Art Unit

1641

Examiner Name

Christine E. Foster

Attorney Docket Number

054030-0066

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Substitute for Form 1449/PTO Copies of 45 references Return postcard
Remarks Note: This paper includes an authorization to charge for entry of an IDS.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Godfrey & Kahn, S.C.		
Signature			
Printed name	Colin L. Fairman		
Date	January 25, 2006	Reg. No.	51,663

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or printed name	Stephanie Klauser	Date	January 25, 2006

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Substitute For Form 1449/PTO

**INFORMATION DISCLOSURE
CITATION IN AN APPLICATION****(January 25, 2006)**

(Use several sheets if necessary)

ATTORNEY DOCKET NO.

054030-0066

APPLICATION NO.

10/711,517

APPLICANT

Nicholas L. ABBOTT, *et al.*

FILING DATE

September 23, 2004

GROUP ART UNIT

1641

U.S. PATENT DOCUMENTS

EXAM- INER INI- TIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	2005/0106562	May 19, 2005				
	2005/0079487	April 14, 2005				
	2005/0079486	April 14, 2005				
	2004/0161800	August 19, 2004				
	2003/0099993	May 29, 2003				
	2002/0028451	March 7, 2002				
	2001/0013294	August 16, 2001				
	2001/0004526	June 21, 2001				
	2002/0098364	July 25, 2002				
	2002/0004216	January 10, 2002				
	2002/0055093	May 9, 2002				
	2004/0091620	May 13, 2004				
	2002/0054188	May 9, 2002				
	2002/0142453	October 3, 2002				
	2002/0164604	November 7, 2002				
	6,858,423	February 22, 2005				
	6,852,285	February 8, 2005				
	6,849,321	February 1, 2005				
	6,797,463	September 28, 2004				
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	6,623,107	September 23, 2003				
	6,600,076	July 29, 2003				
	6,596,346	July 22, 2003				
	6,537,499	March 25, 2003				

Substitute For Form 1449/PTO INFORMATION DISCLOSURE CITATION IN AN APPLICATION (January 25, 2006) (Use several sheets if necessary)				ATTORNEY DOCKET NO. 054030-0066		APPLICATION NO. 10/711,517	
				APPLICANT Nicholas L. ABBOTT, <i>et al.</i>			
				FILING DATE September 23, 2004		GROUP ART UNIT 1641	
U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
		6,364,459	April 2, 2002				
		6,288,392	September 11, 2001				
		6,284,392	September 4, 2001				
		6,284,197	September 4, 2001				
		6,096,386	August 1, 2000				
		6,047,095	April 4, 2000				
		6,171,802	January 9, 2001				
		4,597,942	July 1, 1986				
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FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
		WO 1997/32202	September 4, 1997		6		
		WO 1994/03496	February 17, 1994		5		
		WO 1998/04652	February 5, 1998		6		
		WO 1997/33737	September 18, 1997		6		
		WO 1997/35198	September 25, 1997		6		
		WO 1999/063329	December 9, 1999		7		

Substitute For Form 1449/PTO INFORMATION DISCLOSURE CITATION IN AN APPLICATION (January 25, 2006) (Use several sheets if necessary)		ATTORNEY DOCKET NO.	APPLICATION NO.
		054030-0066	10/711,517
		APPLICANT	
		Nicholas L. ABBOTT, <i>et al.</i>	
		FILING DATE	GROUP ART UNIT
		September 23, 2004	1641
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	1.	Bernard, A., <i>et al.</i> , "Printing Patterns of Proteins," <i>Langmuir</i> 1998, 14(9), 2225-2229.	
	2.	Bernard, A., <i>et al.</i> , "Microcontact Printing of Proteins," <i>Adv. Mater.</i> 2000 12:1067-1070.	
	3.	Bernard A., <i>et al.</i> , "Affinity capture of proteins from solution and their dissociation by contact printing." <i>Nat Biotechnol</i> 2001 19:866-869.	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
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	30.	Renault, J.P., <i>et al.</i> , "Fabricating Arrays of Single Protein Molecules on Glass Using Microcontact Printing." <i>J. Phys. Chem. B</i> 2003 107:703-711.	
	31.	Renault, J.P., <i>et al.</i> , "Fabricating microarrays of functional proteins using affinity contact printing." <i>Angew Chem. Int. Ed. Engl.</i> 2002 41(13):2320-3.E.	
	32.	Shah, R.R. and Abbott, N.L., "Coupling of the Orientations of Liquid Crystals to Electrical Double Layers Formed by the Dissociation of Surface-Immobilized Salts." <i>J. Phys. Chem. B</i> 2001 105:4936-4950.	
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
	34.	Shah, R.R. and Abbott, N.L., "Using Liquid Crystals To Image Reactants and Products of Acid-Base Reactions on Surfaces with Micrometer Resolution" <i>J. Am. Chem. Soc.</i> 1999 121:11300-10.	
	35.	Skaife, J. J., <i>et al.</i> , "Influence of Nanometer-Scale Topography of Surfaces on the Orientational Response of Liquid Crystals to Proteins Specifically Bound to Surface-Immobilized Receptors" <i>Langmuir</i> 2001 17:5448-5457.	
	36.	Starkey, C.A., <i>et al.</i> , "Evaluation of the Recombigen HIV-1 Latex Agglutination Test." <i>Clin Microbiol.</i> 1990 28(4):819-22.	
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